



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 3, 1983

Mr. Wilford W. Ruf
Crater Exploration, Inc.
954 East 7145 South, Suite 202
Midvale, Utah 84047

RE: Tentative Approval
CATO Placer Sand #1
ACT/019/017
Grand County, Utah

Dear Mr. Ruf:

The Division of Oil, Gas and Mining has decided to issue tentative approval to the CATO Placer Sand #1 Mine. An abbreviated version of the Mining and Reclamation Plan has been sent for publication to solicit public comment on the proposed operation. The public comment period runs for 30 days after publication.

Final approval for the mine plan will be issued when the following conditions have been satisfied:

1. No adverse comments about the project are received during the 30-day public comment period.
2. Reclamation surety, as approved by the Board of Oil, Gas and Mining has been posted. Board approval of the form and amount of surety will be considered during the June hearing. Enclosed is a copy of the surety estimate acceptable to Division staff.
3. Crater Exploration, Inc., has accepted in writing the following stipulations:
 - A. The operator must present a more detailed explanation for controlling surface runoff and erosion from the minesite, or provide justification why control methods such as settling basins, berms, silt fences, straw bales, diversion ditches and culverts will not be necessary to minimize contributions of sediment to the receiving stream off-site.

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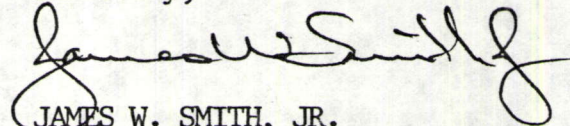
- B. The applicant must forward to the Division a copy of the Army Corps of Engineer's permit for disturbance in the wetland area.
- C. Pursuant to the meeting between Division staff and Crater Exploration on May 2, 1983 and Crater Exploration's May 12, 1983 letter, soil sampling will be accomplished as follows--in the autumn following the completion of activities in a given tailings pond location, the operator or his agent should sample the soil mix to allow ample time for review prior to the initiation of spring planting. This will allow the Soil Conservation Service (SCS) and the Division to make recommendations pertaining to fertilizer and amendment requirements. Tests to be conducted shall include: soil texture; pH; organic matter; cation exchange capacity; electrical conductivity; SAR (Sodium Absorption Ratio); available potassium; soluble calcium; magnesium; and sodium. (Note: this testing program may be scaled back at a later date.)
- D. The applicant must delete the comment on page 2 of the May 12 submittal that "since we already determined that there is no discernible layer of topsoil storage of same does not apply." This statement is not acceptable to the regulatory authority. The reason topsoil storage is not to occur in the usual fashion is that it itself is to be subjected to the mining process, since it will be mixed and deposited in tailings ponds, which will be later reclaimed. As such, it can satisfy the storage requirement if temporary stabilization measures are implemented. The applicant must provide protection to guard against soil erosion for the time interval after pond abandonment but before planting. This may include: soil tacifier; soil sealants; mulch; straw crimped into soil or seeding with a quick growing annual such as rye or barley (season permitting) to stabilize the site.
- E. The application states that soil has been sampled to a depth of 15 feet. Any soils data which are available must be submitted to the Division.
- F. The applicant alludes to the potential that bedrock (if encountered) could be mixed in with soil in the tailings ponds. This is unacceptable to the Division. The applicant shall inform the Division should bedrock be encountered. Proper handling and disposal methods could be worked out at that time.
- G. The applicant must explain how the ash resulting from burning plant material will be incorporated into the soil mix at the tailings pond locations.

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- H. The applicant (in the "Revisions to Form MR-1") states that "State officials have indicated that composting is not needed." This should be deleted as it is the Division's understanding that the applicant preferred to burn the material and incorporate the ashes. The Division would actually prefer composting but considers incorporating of ashes to be adequate at the operator's discretion.
- I. The applicant must submit a map yearly along with the Annual Operations and Progress Report outlining the area disturbed during the preceding year and the area reclaimed during the preceding year. Acreage of both disturbed and reclaimed areas must be provided.
- J. All disturbed acreage which is not actively being mined must be replanted each spring to SCS specifications.

If you should have further questions about the above conditions, or the permitting process, please call me or Susan Linner of my staff. Thank you for your cooperation.

Sincerely,



JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS/SCL:btb

Enclosure

cc: S. Linner, DOGM
P. Grubaugh-Littig, DOGM
D. Wayne Hedberg, DOGM
T. Portle, DOGM

DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Crater Exploration, Inc.
MINE NAME: Cato Placer
LOCATION: Sec. 8, T. 23 S., R. 24 E., SLB&M
COUNTY: Grand
DATE: May 19, 1983
 Based on 10 acres maximum annual reclamation

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	\$500.00	Lump Sum	\$ 500.00
	2. Removal of trash & debris.	\$300.00	Lump Sum	300.00
	3. Leveling of ancillary facilities pads and access roads.	\$500.00	Lump Sum	500.00
B.	REGRADEING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	\$450.00/ac	10 ac	4,500.00
	2. Recontouring of highwalls and excavations.	n/a		
	3. Spreading of soil or surficial materials.	n/a		
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	\$200.00/ac	10 ac	2,000.00
	2. Seeding or planting.			
	3. Construction of terraces, waterbars, etc.	n/a		
D.	LABOR			
	1. Supervision.			
	2. Labor exclusive of bulldozer time.	\$50/ac	10 ac	500.00
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	n/a		
	2. Removal or neutralization of explosive or hazardous materials.	n/a		
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	\$500.00	year	500.00
			TOTAL	\$8,800.00
			10% contingency	
G.	OTHER			
		1984-\$10,648		880.00
		1985-\$11,713		
		1986-\$12,884		\$9,680.00 (1983 dollars)
	Includes total costs per acre as per SCS letter.			